

**REMARKS****1. Regarding Examiner's Notes & Remarks:**

5        The disclosure has been reviewed and typographical and grammatical errors, where perceived, have been corrected. Errors detected in paragraphs 0012, 0023, 0026 & 0028 of the specification, line 10 of the Abstract of Disclosure, line 3 of claim 1 and lines 2 & 3 of claim 10, have been marked-up and amended herein.

10       Furthermore, during the course of analysis, the following errors in the Specification were identified and corrected:

Paragraph 0026, line 8. The labeling of "the off-track period 56" was in error, hence being corrected to read "the off-track period 58", and thereby making the subsequent "of the track period 58" superfluous, hence deletion of the latter.

15       Paragraph 0028, line 10. The recitation of "track cross signal" is in error as it does not relate to the operating principles stated in paragraph 0026 or to Fig.5, hence being corrected to read, "tracking error signal TE 44".

20       These amendments for correction add no new matter, since these are obvious errors.

**2. Regarding Objections to the Drawings:**

25       The drawings are objected to under 37 C.F.R. 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the corrected tracking error signal being "a mirror signal of the tracking error signal" must be shown or the feature cancelled from the claim.

Response:

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The language used in the claims has been amended in response to the rejection of said claims under 35 U.S.C. 112, as suggested by the Examiner (see below), and so

the exact phrase "a mirror signal of the tracking error signal" no longer forms part of the amended claims. However, in order to better relate the drawings to the Detailed Description, labeling of the "Tracking error signal" (amended to "Tracking error signal TE"), and the "Corrected tracking error signal" (amended to "Corrected tracking error signal TE\_input") in Fig.4 has been amended. No new matter is introduced by the above amendments. Consideration of the proposed amendment to the drawings is politely requested.

### 3. Regarding Objections to the Specification:

The title of the invention is neither precise nor descriptive.

Response:

In an effort to overcome the objection set forth on page 3 of the above mentioned Office action and to better reflect the essence of the claimed invention, the title of the invention is amended from: "Method for track locking in an optical disc drive", to "Method for controlling high speed track locking operations in an optical disc drive including modification of a tracking error signal". Consideration of the amended title is politely requested.

Other changes are made to the Specification in concert with the drawing amendments detailed in Section 2 above, i.e. in order to better relate the drawings to the Detailed Description, all relevant occurrences of "tracking error signal TE" and "corrected tracking error signal TE\_input" are cross referenced to Fig.4 thusly: tracking error signal TE 44; corrected tracking error signal TE\_input 52. No new matter is introduced by the above detailed amendments.

### 4. Regarding rejections under 35 U.S.C. 112:

Claims 1-11 are rejected under 35 U.S.C.112.

Claim 1, lines 10-12 "the corrected tracking error signal being a mirror signal of the tracking error signal" is confusing and unclear. It is not clear how "the corrected tracking error signal" is a mirror signal of the original tracking error signal, since both of them are quite different from each other in the drawings [fig.4] and in the specification. Claim 11 has the same problem.

Response:

Claims 1 & 7 are amended to overcome the rejections under 35 U.S.C.112 set forth on pages 3 & 4 of the above detailed Office action. The Applicant notes the Examiner's comments regarding the relationship between the language used in the above claims and the supporting sections of the Specification. Claims 1 & 7 are amended as follows: "the corrected tracking error signal being modified from a reference point onward, to mirror the subsequent half cycle of the tracking error signal". This amendment follows the spirit of indicating that only a partial mirror signal is used, this occurring from the reference point (item 66 of Fig.4) onward and being a mirror of the negative going waveform of the tracking error signal [44]. Support for the above amendment can be found in paragraph 0026 of the Detailed Description, specifically between lines 11 -19 and in Fig.4, where the tracking error waveform being mirrored can be seen in ghost on the representation of the corrected tracking error signal 52, and the modified/mirrored portion of the corrected tracking error signal 52 can be seen to correspond to the off-track period 58. In addition, the Applicant believes the above amendment to be in line with the suggestion made by the Examiner. No new matter is introduced by the above amendments.

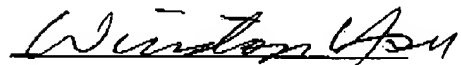
Additionally, a "wherein" clause has been added to line 9 of claim 7, the omission of which having some potential for creating confusion regarding the production of a tracking error signal. The amended claim 7 reflects the production of a tracking error signal as recited by

paragraphs 0023 & 0024 of the Detailed Description.

Claims 2-6 and 8-11, being dependent upon claims 1 & 7 should, as previously indicated by the Examiner, be allowable if the independent  
5 claims are considered allowable. Reconsideration of amended claims 1 & 7 and their dependent claims is politely requested.

Sincerely,

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